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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/086,105
Source: OPE
Date Processed by STIC: 3/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



OIPE

RAW SEQUENCE LISTING

DATE: 03/19/2002

PATENT APPLICATION: US/10/086,105

TIME: 15:11:08

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\03192002\J086105.raw

3 <110> APPLICANT: Kevin J. Kayser
 4 John J. Kilbane, II
 6 <120> TITLE OF INVENTION: System and Method for Gene Expression in Thermus Strains
 8 <130> FILE REFERENCE: IGT-1444
 9 *OK* 10 <140> CURRENT APPLICATION NUMBER: US/10/086,105
 12 <141> CURRENT FILING DATE: 2002-02-28
 14 <160> NUMBER OF SEQ ID NOS: 5
 16 <170> SOFTWARE: WordPerfect 9.0

ERRORED SEQUENCES

30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 50 *51 shown*
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Artificial Sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: 5' UTR added to five prime of transcript
 38 <400> SEQUENCE: 2
 E--> 39 gcattgcttat ctcgagactg gcagttcaat agagatattg tatgcctgca g
 41 <210> SEQ ID NO: 3
 42 <211> LENGTH: 7
 43 <212> TYPE: DNA
 44 <213> ORGANISM: Artificial Sequence
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: RBS addition to expression vector
 E--> 49 <400> SEQUENCE: *3 ← insert*
 C--> 50 aaaggga
 52 <210> SEQ ID NO: 4
 53 <211> LENGTH: 8
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: RBS addition to expression vector
 E--> 60 <400> SEQUENCE: *4 ← insert*
 C--> 61 gaaggagg
 63 <210> SEQ ID NO: 5
 64 <211> LENGTH: 772
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Artificial Sequence
 68 <220> FEATURE:
 69 <223> OTHER INFORMATION: Inducible promoter mdh
 E--> 71 <400> SEQUENCE: *5 ← insert*

all bases must be in lower-case letters, when Sequence Listing is in new Sequence ruler format (Please correct globally)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,105

DATE: 03/19/2002

TIME: 15:11:08

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\03192002\J086105.raw

use lower-case letters

C--> 72	ggaggaggcc	aagaagcttt	tggaggggaa	gcccgtctac	atgtacccca	cgtccattga	60
74	ggcggccaag	gccatcgtgg	ccatgggtgg	aggtgcggcg	tgatcctggt	gaaccgcgag	120
76	acccgcgtcc	tygtccaggg	cateaccggc	cgggaggggc	agttccacac	caagcagatg	180
78	ctggactacg	gcaccaagat	cgtcgcgggg	gtcacccegg	gcaaaggggg	aacggaggtc	240
80	ctaggggtcc	ccgtctacga	caagggtgaag	gaggcggtgg	cgcaccacga	ggtggacgcc	300
82	tccatcatct	tcgtgcccg	cccggcccg	gcggaacgcc	ccctggaagc	ggcccacgcc	360
84	gggatcccc	tcacgtcct	catcaccgag	ggcatcccca	ccctggacat	ggtgcggggc	420
86	gtggaggaga	tcaaggccct	gggaagccgc	ctcatcgggg	ggaactgcc	ggggatcatc	480
88	agcgcgag	agaccaagat	cgggatcatg	cccggccacg	tcttcaagcg	gggcccgggtg	540
90	gggatcatca	gccgctccgg	caccctcacc	tacgaggccg	cagccgccct	ttcccaggcg	600
92	gggctcggca	ccaccaccac	ggtggggatc	ggggggcgacc	ccgtcatcgg	caccaccttc	660
94	aaggacctcc	tccccctctt	caacgaggac	ccggagacgg	aggccgtggt	cctcatcggg	720
96	gagatcggcg	gctccgacga	ggaggaggcg	gcggcttggg	tgaaggacca	ca	772

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/086,105

DATE: 03/19/2002

TIME: 15:11:09

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\03192002\J086105.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:112 C: (48) String data converted to lower case,
L:39 M:112 C: (48) String data converted to lower case,
L:39 M:252 E: No. of Seq. differs, <211>LENGTH:Input:50 Found:51 SEQ:2
L:49 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:2
L:50 M:112 C: (48) String data converted to lower case,
L:60 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4 differs:2
L:61 M:112 C: (48) String data converted to lower case,
L:71 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:5 differs:2
L:72 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=5